

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 10319164
PUBLICATION DATE : 04-12-98

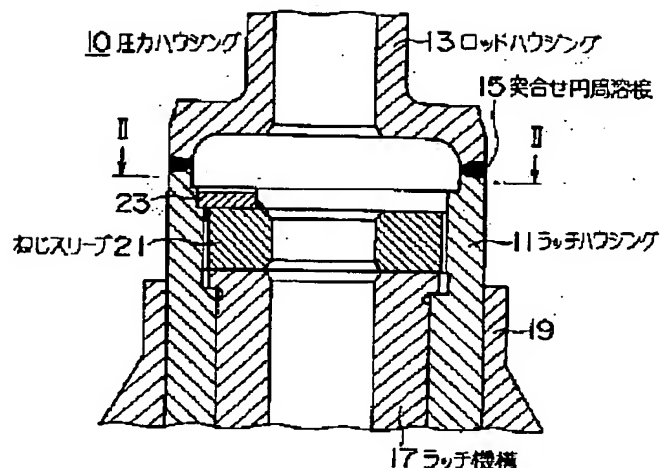
APPLICATION DATE : 19-05-97
APPLICATION NUMBER : 09128838

APPLICANT : MITSUBISHI HEAVY IND LTD;

INVENTOR : TAKANABE KIYOSHI;

INT.CL. : G21C 7/14

TITLE : HOUSING STRUCTURE OF MAGNETIC
JACK TYPE CONTROL ROD DRIVE
DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To facilitate air-venting and prevent stress corrosion cracking by connecting the latch housing and rod housing of pressure housing by butt circumferential welding.

SOLUTION: At the top end of the latch housing 11 of pressure housing, a rod housing 13 is connected by butt circumferential welding 15. The bottom end of the latch housing 11 is connected to the nozzle of a reactor vessel upper lid and is surrounded by a coil spring 19 corresponding to an inner latch mechanism 17. The latch mechanism 17 is fixed to a lower distortion with a screw sleeve 21 screwed in the top of the latch housing 11 and the screw sleeve 21 disturbs rotation as a fixed key 23 fits in the key groove of the latch housing 11. If coolant is drained during reactor shutdown, air is filled and the inner surface of the butt circumferential welding 15 is exposed to air. However, at operation restart the coolant liquid surface rises to push up the air contacting the inner surface of the butt circumferential welding 15 upward, and so the air does not remain and high temperature coolant with high oxygen concentration causing stress corrosion cracking is not produced.

COPYRIGHT: (C)1998,JPO